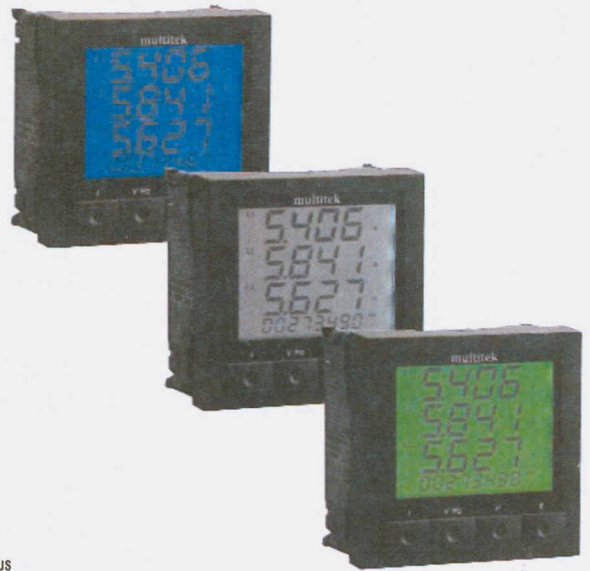


Power Monitor

M850-LCD

MultiPower metering system for AC applications



- Complete 1-phase and 3-phase digital universal metering system
- Measures a standard range of 19 different parameters
- Continuous display of kW.h or kVA.h
- THD option for Current and Voltage
- Four easy to access front control buttons to scroll up or down through the parameters
- Unique LCD FSTN display with customer selectable back lighting with user-selectable color options of blue, green or white
- Plug-in communications modules for RS485 (Modbus) and pulsed output
- MODBUS RTU and BACnet MS/TP communications protocols for use with PC, PLC, RTU, Data Loggers and SCADA programs
- Communicate with up to 32 other meters or controllers on 2-wire bus
- UL listed
- Non-volatile eeprom memory retains all current ratios, demand time periods, and calibration data in power down (power loss) conditions
- Auxiliary power supply is a universal supply for both AC and DC volts
- Fast response times:
 - Display, less than 50ms;
 - RS485 (Modbus), less than 10ms
- Free software for monitoring and logging

ELECTRICAL SPECIFICATIONS

SYSTEM TYPES

Single Phase	3-Phase 3-Wire Unbalanced
Single Phase 3-Wire	3-Phase 4-Wire Balanced
3-Phase 3-Wire Balanced	3-Phase 4-Wire Unbalanced

INPUTS

Voltage	28V to 347V,AC (L-N) 48V to 600V,AC (L-L)
Overload Burden	800V,AC continuous 0.5VA per phase
Current Input	Via CT: 5A; 1A,AC CT Option: 0.5 to 6A,AC; 0.1 to 1.2A
Input Overload	10 x In for 1 sec.
Input Burden	0.5VA per phase
Frequency	45-65Hz (Optional 360-440Hz)
Input Working Range	V&I from 1.7% to 100%

ACCURACY

Volts/Amps	0.5% of reading \pm 2 digits
Frequency	0.1Hz \pm 1 digit
Active Power	1% of reading \pm 2 digits
Reactive Power	1% of reading \pm 2 digits
Apparent Power	1% of reading \pm 2 digits
Power Factor	1% of range
Energy	IEC 1036, Class I

AUXILIARY VOLTAGE

100 to 440V,AC; 100 to 420V,DC (Optional 19 to 69V,DC)
45-65Hz, Burden <10VA

INSULATION

Insulation Category	III (480V,AC L-L)
Degree of Pollution	2
Rated Impulse	IEC 60947-1-V
Withstand Voltage Meters, Front	imp: 4kV Class II
Electrical Security	IEC 61010-1

ELECTROMAGNETIC COMPATIBILITY

Immunity to:

Electrostatic Discharges (ESD)	IEC 61000-4-2-Level III
Radiated Radio-Hz Fields	IEC 61000-4-3-Level III
Electrical Fast Transient/Bursts	IEC 61000-4-4-Level III
Impulse Waves	IEC 61000-4-5-Level III
Conducted Disturbances	IEC 61000-4-6-Level III
Voltage Dips & Short Interruptions	IEC 61000-4-11-Level III

Emissions to:

Conducted and Radiated	CISPR11-Class A
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